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WHAT IS CLAIMED IS:

An area sensor comprising a sensor portion, the sensor portion comprising:

 a plurality of pixels, each of the plurality of pixels comprising a photodiode, an

 electroluminescence element and a plurality of thin film transistors,

wherein the photodiode includes a photoelectric conversion layer that is in contact with a part of a P-type semiconductor layer and an N-type semiconductor layer and is made of an amorphous semiconductor film and

the photoelectric conversion layer is thicker than the P-type semiconductor layer and the N-type semiconductor layer.

An area sensor comprising a sensor portion, the sensor portion comprising:
 a plurality of pixels, each of the plurality of pixels comprising a photodiode, an
 electroluminescence element and a plurality of thin film transistors,

wherein a light emitted from the electroluminescence element is reflected from a subject to be radiated to the photodiode,

the photodiode generates an image signal from the light radiated to the photodiode,

the photodiode includes a photoelectric conversion layer that is in contact with a part of a P-type semiconductor layer and an N-type semiconductor layer and is made of an amorphous semiconductor film and

the photoelectric conversion layer is thicker than the P-type semiconductor layer and the N-type semiconductor layer.

An area sensor comprising a sensor portion, the sensor portion comprising:
 a plurality of pixels, each of the plurality of pixels comprising a photodiode, an

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electroluminescence element and a plurality of thin film transistors.

wherein the plurality of thin film transistors control light emission of the electroluminescence element.

a light emitted from the electroluminescence element is reflected from a subject to be radiated to the photodiode,

the photodiode and the plurality of thin film transistors generate an image signal from the light radiated to the photodiode,

the photodiode includes a photoelectric conversion layer that is in contact with a part of a P-type semiconductor layer and an N-type semiconductor layer and is made of an amorphous semiconductor film and

the photoelectric conversion layer is thicker than the P-type semiconductor layer and the N-type semiconductor layer.

An area sensor comprising a sensor portion, the sensor portion comprising:

 a plurality of pixels, each of the plurality of pixels comprising a photodiode, an
 electroluminescence element and a plurality of thin film transistors,

wherein the pixel includes a photodiode, an electroluminescence element, a switching TFT, an electroluminescence driving TFT, a reset TFT, a buffer TFT and a selective TFT.

the switching TFT and the electroluminescence driving TFT control light emission of the electroluminescence element.

light emitted from the electroluminescence element is reflected from a subject to be radiated to the photodiode.

the photodiode and the plurality of thin film transistors generate an image signal

from the light radiated to the photodiode,

the photodiode includes a photoelectric conversion layer that is in contact with a part of a P-type semiconductor layer and an N-type semiconductor layer and is made of an amorphous semiconductor film and

the photoelectric conversion layer is thicker than the P-type semiconductor layer and the N-type semiconductor layer.

- An area sensor according to claim 1, wherein the N-type semiconductor layer comprises polysilicon.
- An area sensor according to claim 2, wherein the N-type semiconductor layer comprises polysilicon
- 7. An area sensor according to claim 3, wherein the N-type semiconductor layer comprises polysilicon
- An area sensor according to claim 4, wherein the N-type semiconductor layer comprises polysilicon
- An area sensor according to claim 1, wherein the P-type semiconductor layer comprises polysilicon.
 - An area sensor according to claim 2, wherein the P-type semiconductor layer comprises polysilicon

- An area sensor according to claim 3, wherein the P-type semiconductor layer comprises polysilicon
- An area sensor according to claim 4, wherein the P-type semiconductor layer comprises polysilicon
- An area sensor according to claim 1, wherein the electric conversion layer comprises amorphous silicon.
- 14. An area sensor according to claim 2, wherein the electric conversion layer comprises amorphous silicon.
- 15. An area sensor according to claim 3, wherein the electric conversion layer comprises amorphous silicon.
- 16. An area sensor according to claim 4, wherein the electric conversion layer comprises amorphous silicon.
- 17. An area sensor according to claim 1, wherein the electroluminescence element has a positive electrode, a negative electrode and an electroluminescence layer provided between the positive electrode and the negative electrode.
 - 18. An area sensor according to claim 2, wherein the electroluminescence element

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has a positive electrode, a negative electrode and an electroluminescence layer provided between the positive electrode and the negative electrode.

- 19. An area sensor according to claim 3, wherein the electroluminescence element has a positive electrode, a negative electrode and an electroluminescence layer provided between the positive electrode and the negative electrode.
- 20. An area sensor according to claim 4, wherein the electroluminescence element has a positive electrode, a negative electrode and an electroluminescence layer provided between the positive electrode and the negative electrode.
- 21. An area sensor according to claim 1, wherein an electronic equipment using the area sensor is an equipment, which is selected from the group of: a video camera, a digital still camera, a notebook computer and a portable information terminal.
- 22. An area sensor according to claim 2, wherein an electronic equipment using the area sensor is an equipment, which is selected from the group of: a video camera, a digital still camera, a notebook computer and a portable information terminal.
- 23. An area sensor according to claim 3, wherein an electronic equipment using the area sensor is an equipment, which is selected from the group of: a video camera, a digital still camera, a notebook computer and a portable information terminal.
 - 24. An area sensor according to claim 4, wherein an electronic equipment using the

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area sensor is an equipment, which is selected from the group of: a video camera, a digital still camera, a notebook computer and a portable information terminal.

25. A display apparatus comprising a sensor portion, the sensor portion comprising: a plurality of pixels, each of the plurality of pixels comprising a photodiode, an electroluminescence element and a plurality of thin film transistors,

wherein the photodiode includes a photoelectric conversion layer that is in contact with a part of a P-type semiconductor layer and an N-type semiconductor layer and is made of an amorphous semiconductor film and

the photoelectric conversion layer is thicker than the P-type semiconductor layer and the N-type semiconductor layer.

26. A display apparatus comprising a sensor portion, the sensor portion comprising: a plurality of pixels, each of the plurality of pixels comprising a photodiode, an electroluminescence element and a plurality of thin film transistors,

wherein a light emitted from the electroluminescence element is reflected from a subject to be radiated to the photodiode,

the photodiode generates an image signal from the light radiated to the photodiode,

the photodiode includes a photoelectric conversion layer that is in contact with a part of a P-type semiconductor layer and an N-type semiconductor layer and is made of an amorphous semiconductor film and

the photoelectric conversion layer is thicker than the P-type semiconductor layer and the N-type semiconductor layer.

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27. A display apparatus comprising a sensor portion, the sensor portion comprising: a plurality of pixels, each of the plurality of pixels comprising a photodiode, an electroluminescence element and a plurality of thin film transistors.

wherein the plurality of thin film transistors control light emission of the electroluminescence element.

a light emitted from the electroluminescence element is reflected from a subject to be radiated to the photodiode,

the photodiode and the plurality of thin film transistors generate an image signal from the light radiated to the photodiode,

the photodiode includes a photoelectric conversion layer that is in contact with a part of a P-type semiconductor layer and an N-type semiconductor layer and is made of an amorphous semiconductor film and

the photoelectric conversion layer is thicker than the P-type semiconductor layer and the N-type semiconductor layer.

28. A display apparatus comprising a sensor portion, the sensor portion comprising: a plurality of pixels, each of the plurality of pixels comprising a photodiode, an electroluminescence element and a plurality of thin film transistors,

wherein the pixel includes a photodiode, an electroluminescence element, a switching TFT, an electroluminescence driving TFT, a reset TFT, a buffer TFT and a selective TFT.

the switching TFT and the electroluminescence driving TFT control light emission of the electroluminescence element,

light emitted from the electroluminescence element is reflected from a subject to be

radiated to the photodiode,

the photodiode and the plurality of thin film transistors generate an image signal from the light radiated to the photodiode,

the photodiode includes a photoelectric conversion layer that is in contact with a part
of a P-type semiconductor layer and an N-type semiconductor layer and is made of an
amorphous semiconductor film and

the photoelectric conversion layer is thicker than the P-type semiconductor layer and the N-type semiconductor layer.

- 29. A display apparatus according to claim 25, wherein the N-type semiconductor layer comprises polysilicon.
- 30. An area sensor according to claim 26, wherein the N-type semiconductor layer comprises polysilicon
- An area sensor according to claim 27, wherein the N-type semiconductor layer comprises polysilicon
- An area sensor according to claim 28, wherein the N-type semiconductor layer
 comprises polysilicon
 - An area sensor according to claim 25, wherein the P-type semiconductor layer comprises polysilicon.

- An area sensor according to claim 26, wherein the P-type semiconductor layer comprises polysilicon
- 35. An area sensor according to claim 27, wherein the P-type semiconductor layercomprises polysilicon
 - An area sensor according to claim 28, wherein the P-type semiconductor layer comprises polysilicon
 - 37. An area sensor according to claim 25, wherein the electric conversion layer comprises amorphous silicon.
 - 38. An area sensor according to claim 26, wherein the electric conversion layer comprises amorphous silicon.
 - An area sensor according to claim 27, wherein the electric conversion layer comprises amorphous silicon.
- An area sensor according to claim 28, wherein the electric conversion layer
 comprises amorphous silicon.
 - 41. An area sensor according to claim 25, wherein the electroluminescence element has a positive electrode, a negative electrode and an electroluminescence layer provided between the positive electrode and the negative electrode.

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- 42. An area sensor according to claim 26, wherein the electroluminescence element has a positive electrode, a negative electrode and an electroluminescence layer provided between the positive electrode and the negative electrode.
- 43. An area sensor according to claim 27, wherein the electroluminescence element has a positive electrode, a negative electrode and an electroluminescence layer provided between the positive electrode and the negative electrode.
- 44. An area sensor according to claim 28, wherein the electroluminescence element has a positive electrode, a negative electrode and an electroluminescence layer provided between the positive electrode and the negative electrode.
- 45. An area sensor according to claim 25, wherein an electronic equipment using the area sensor is an equipment, which is selected from the group of: a video camera, a digital still camera, a notebook computer and a portable information terminal.
- 46. An area sensor according to claim 26, wherein an electronic equipment using the area sensor is an equipment, which is selected from the group of: a video camera, a digital still camera, a notebook computer and a portable information terminal.
- 47. An area sensor according to claim 27, wherein an electronic equipment using the area sensor is an equipment, which is selected from the group of: a video camera, a digital still camera, a notebook computer and a portable information terminal.

48. An area sensor according to claim 28, wherein an electronic equipment using the area sensor is an equipment, which is selected from the group of: a video camera, a digital still camera, a notebook computer and a portable information terminal.